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# PRELIMINARY ENUMERATION

OF THE

# Lichens of Lancaster County, PENNSYLVANIA.

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By A. ARTHUR HELLER.

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In "Mombert's Authentic History of Lancaster County," published in 1869, Dr. Thos. C. Porter enumerated 1169 species of flowering plants, 47 species of ferns, 125 species of mosses, and 27 species of liverworts. Since that time almost one hundred species of flowering plants and a number of mosses have been added. But little attention has been paid to lichens thus far, and only a few collected.

The present list in which seventy-eight species and varieties are enumerated, is a crude endeavor to give this interesting branch of botany the impulse and recognition which it deserves in this county, so rich in plant life.

With the exception of a few collected by Mr. Small and myself in 1890, and several contributed by Dr. Porter, all the species enumerated were collected by myself during November, 1892. There can be no doubt that further and more thorough exploration will double or triple the number.

I have noted in nearly all cases the situations in which the plants were found, as it is an interesting matter to observe to what extent an individual species is restricted in habitat, or how widely it may be distributed.

I am indebted to Dr. N. L. Britton, who kindly gave me the opportunity of comparing my specimens with those in the herbarium of Columbia College, and to Dr. John W. Eckfeldt for revising and correcting my determinations.

LANCASTER, PA., February 15, 1893.

## LIST OF SPECIES.

### USNEÆ.

#### Ramalina, Ach.

- R. calicaris** (L.) Fr. Conewago, on *Juniperus Virginiana*.  
**R. calicaris** (L.) Fr., var. **canaliculata**, Fr. Mt. Hope.  
**R. calicaris** (L.) Fr., var. **fastigata**, Fr. Safe Harbor, on fences.  
**R. calicaris** (L.) Fr., var. **fraxinea**, Fr. Cedar Hill, on fences.

#### Cetraria, Ach.

- C. ciliaris** (Ach.) Tuck. McCall's Ferry, on dead branches.  
**C. lacunosa**, Ach. Martie Forge—Porter.

#### Usnea, Ach.

- U. barbata** (L.) Fr. McCall's Ferry, on oak trees.  
**U. barbata** (L.) Fr., var. **ceratina**, Schaer. Mt. Hope.  
**U. barbata** (L.) Fr., var. **florida**, Fr. Mt. Hope.  
**U. barbata** (L.) Fr., var. **hirta**, Fr. McCall's Ferry, on oak trees.  
**U. barbata** (L.) Fr., var. **rubiginea**, Michx. McCall's Ferry, on oak trees.

### PARMELIÆ.

#### Theloschistes, Norm.

- T. chrysophthalmus** (L.) Norm. Safe Harbor, on *Robinia Pseudacacia*.  
**T. concolor** (Dicks.) Tuck. Conewago, on *Robinia Pseudacacia*.  
**T. lychnus**, Nyl. Conewago, on *Robinia Pseudacacia*.

#### Parmelia, Ach.

- P. Borreri**, Ach., var. **reducta**, Tuck. Safe Harbor, on fences—Small; Cedar Hill, on fences; Mill Creek, on walnut tree; Conewago, on oak trees; McCall's Ferry, on rocks.  
**P. cetrata**, Ach. Conewago, on oak trees; McCall's Ferry, on *Robinia Pseudacacia*.  
**P. caperata** (L.) Ach. Conewago, on *Juniperus Virginiana*; Cedar Hill, on fences; McCall's Ferry, on rocks.  
**P. conspersa** (Ehrh.) Ach. Safe Harbor—Small: McCall's Ferry.  
**P. perforata** (Jacq.) Ach. Conewago, on oak trees.  
**P. perlata** (L.) Ach. Mt. Hope.  
**P. saxatilis** (L.) Fr. Conewago, on rocks.  
**P. tiliacea** (Hoffm.) Floerke. Mt. Hope—Small.

#### Physcia DC.

- P. aquila** (Ach.) Nyl., var. **detonsa**, Tuck. Conewago—Small; McCall's Ferry, Safe Harbor, on rocks.  
**P. astroidea** (Fr.) Nyl. Safe Harbor—Small.  
**P. comosa** (Eschw.) Nyl. Cedar Hill, on *Juniperus Virginiana*—Porter.  
**P. hypoleuca** (Ach.) Tuck. Conewago, on *Juniperus Virginiana*.  
**P. obscura** (Ehrh.) Nyl. Mill Creek, on walnut tree.  
**P. pulverulenta** (Schreb.) Nyl. Safe Harbor, on fences.  
**P. stellaris** (L.) Tuck. Safe Harbor, on fences; Cedar Hill, on *Ulmus Americana*; Conewago, on *Robinia Pseudacacia*.  
**P. speciosa** (Wulf.) Nyl. Conewago, on *Juniperus Virginiana*.

**P. tribacea** (Ach.) Tuck. Cedar Hill, on *Ulmus Americana*. Conewago, on *Juniperus Virginiana*.

**Pyxine, Fr.**

**P. soreciata**, Fr. Safe Harbor, on rocks.

**UMBILICARIEÆ.**

**Umbilicaria, Hoffm.**

**U. Dillenii**, Tuck. Mt. Hope—Small; McCall's Ferry—Porter, Heller.

**U. pustulata** (L.) Hoffm., var. **papulosa**, Tuck. McCall's Ferry.

**U. vellea** (L.) Nyl. Tucquan—Small.

**PELTIGERIEÆ.**

**Sticta, Schreb.**

**S. amplissima** (Scop.) Mass. Tucquan, on rocks; Mt. Hope, on pine trees—Small; Safe Harbor, on rocks.

**S. pulmonaria** (L.) Ach. Mt. Hope—Small.

**S. quercizans** (Michx.) Ach. Mt. Hope—Small; McCall's Ferry; Safe Harbor, on rocks.

**Peltigera, Willd**

**P. aphthosa** (L.) Hoffm. McCall's Ferry, on rocks.

**P. canina** (L.) Hoffm. Conewago—Small.

**P. horizontalis** (L.) Hoffm. McCall's Ferry, on rocks.

**COLLEMEÆ.**

**Collema, Hoffm.**

**C. nigrescens** (Huds.) Ach. Little Chiquesalunga, on moist limestone rocks—Small.

**Leptogium, Fr.**

**L. myochroum** (Ehrh.) Tuck, var. **saturninum** (Sm.) Schaer. Tucquan—Porter.

**Hydrothyria, Russell.**

**H. venosa**, Russell. Mt. Hope, on wet rocks—Porter.

**LECANOREÆ.**

**Placodium, DC.**

**P. aurantiacum** (Lightf.) Naeg. & Hepp. McCall's Ferry, on stones.

**P. cerinum** (Hedw.) Naeg. & Hepp. Mill Creek, on fences.

**Lecanora, Ach.**

**L. pallida** (Schreb.) Schaer., var. **cancriformis**, Tuck. Conewago, on *Ailanthus*.

**L. subfusca** (L.) Ach. Mill Creek, on dead chestnut bark; Conewago, on *Ailanthus*.

**L. varia** (Ehrh.) Nyl. Conewago, on *Acer rubrum* and fences; Mill Creek, on telegraph poles and dead chestnut bark.

**Pertusaria, DC.**

**P. communis**, DC. Cedar Hill, on *Ostrya Virginica*; Conewago, on *Acer rubrum*.

**P. pustulata** (Ach.) Nyl. Conewago, on *Ailanthus*.

**P. velata** (Turn.) Nyl. Cedar Hill, on *Juniperus Virginiana*.

**CLADONIEÆ.**

**Stereocaulon, Schreb.**

**S. paschale** (L.) Fr. Mountville on the ground—Mrs. A. F. Eby.



### **Cladonia, Hoffm.**

- C. cristatella**, Tuck. McCall's Ferry; Conewago, on dead wood and on the ground.  
**C. fimbriata** (L.) Fr. Safe Harbor; Mt. Hope, on the ground.  
**C. furcata** (Huds.) Fr. Conewago, on the ground.  
**C. furcata** (Huds.) Fr., var. **racemosa**, Flörk. Mt. Hope, on the ground—Small.  
**C. gracilis** (L.) Nyl. Safe Harbor—Small; Conewago; McCall's Ferry on the ground.  
**C. gracilis** (L.) var. **verticillata**, Fr. Safe Harbor, on the ground.  
**C. Mitrula**, Tuck. Safe Harbor, on the ground.  
**C. pyxidata** (L.) Fr. Near Lancaster—Small; Safe Harbor, on the ground; Conewago, on rocks; McCall's Ferry, on rocks; Mt. Hope, on rocks.  
**C. rangiferina** (L.) Hoffm. Conewago; McCall's Ferry, on the ground.  
**C. symphicarpa**, Fr. Safe Harbor, on the ground.  
**C. squamosa**, Hoffm. McCall's Ferry, on the ground.  
**C. uncialis** (L.) Fr. McCall's Ferry, on the ground.

### **LECIDEÆ.**

#### **Bæomyces, Pers.**

- B. roseus**, Pers. Safe Harbor, McCall's Ferry, on the ground.

#### **Biatoria, Fries.**

- B. varians** (Ach.) Tuck. McCall's Ferry, on *Robinia Pseudacacia*.

#### **Lecidea, Ach.**

- L. contigua**, Fr? McCall's Ferry, on stones.

#### **Buellia, De Not.**

- B. parasema** (Ach.) Th. Fr. Conewago, on *Acer rubrum*.

### **OPHEGRAPHEÆ.**

#### **Ophegrapha, Humb.**

- O. vulgata** (Ach.) Nyl. Cedar Hill, on *Ostrya Virginica*.

#### **Graphis, Ach.**

- G. dendritica**, Ach. Cedar Hill, on oak trees.  
**G. scripta**, Ach. Conewago, on *Ailanthus*; McCall's Ferry, on *Robinia Pseudacacia*.

### **ARTHONIEÆ.**

#### **Arthonia, Ach.**

- A. lecidella**, Nyl. Cedar Hill, on *Celtis occidentalis*; Conewago, on *Acer rubrum*.  
**A. spectabilis**, Fl. McCall's Ferry.

### **CALICIEÆ.**

#### **Calicium, Pers.**

- C. byssaceum**, Fr. McCall's Ferry, on *Pinus pungens*.

### **ENDOCARPEÆ.**

#### **Endocarpon, Hedw.**

- E. miniatum** (L.) Schær. Mill Creek, Little Chiquesalunga, on limestone rocks; Safe Harbor, on Eozoic rocks.  
**E. miniatum** (L.) Schær., var. **aquaticum**, Schær. Safe Harbor, on wet rocks.

### **VERRUCARIEÆ.**

#### **Sagedia, Mass.**

- S. oxyspora** (Nyl.) Tuck. Cedar Hill, on *Acer saccharum*.